Yamaha Steinberg FW Driver Installation Guide

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What is Yamaha Steinberg FW Driver?

Yamaha Steinberg FW Driver enables audio/MIDI signals to be transferred between a computer and devices compatible with the Yamaha Steinberg FW Driver via IEEE1394 cables.

Devices compatible with the Yamaha Steinberg FW Driver include the following. (December 2010)
- Steinberg MR816 CSX/MR816 X
- Yamaha FW16E/mLAN16E/n8/n12

NOTE

- The MOTIF XS8 is equipped with the mLAN16E2 as standard.
- Yamaha Steinberg FW Driver requires following software components when using with the FW16E/mLAN16E2/n8/n12.
  - IEEE1394 Firmware V1.07 or later
    *V1.08 or later has already been applied to the FW16E
    *V1.08 or later (When using mLAN16E2 on the MOTIF XF)
  - MOTIF XS V1.10 or later (When using MOTIF XS)
  - n8/n12 V1.03 or later (When using n8/n12)
  - Sweet Spot Data Manager V2.0.0 (When using n8/n12)

  You can download the latest version of the software at the following website
  http://www.yamahasynth.com/download/
- Regarding the latest information about devices compatible with the Yamaha Steinberg FW Driver, see
  http://www.yamahasynth.com/

How This Guide is Organized

Installing/Uninstalling the software (page 4)
Explains how to install/uninstall Yamaha Steinberg FW Driver for the first time.

Selecting the Yamaha Steinberg FW Driver (page 12)
Explains how to select devices compatible with the Yamaha Steinberg FW Driver in DAW software.

Changing settings after installing (page 12)
Explains how to determine the general settings for devices compatible with the Yamaha Steinberg FW Driver by using the Control Panel Window of the Yamaha Steinberg FW Driver.

Using multiple devices compatible with Yamaha Steinberg FW Driver (page 15)
Explains how to set up the driver when connecting multiple devices compatible with the Yamaha Steinberg FW Driver.

Hints for using audio data (Windows) (page 16)
Explains how to set up the configuration of Windows to use the audio functions correctly.

Troubleshooting (page 17)
Explains how to solve problems that you may encounter while you are using devices compatible with the Yamaha Steinberg FW Driver along with your computer.

Appendix (page 19)
Explains how to uninstall the AI Driver(n Driver) or mLAN Tools/mLAN Driver.

Installing the Software

This software enables you to connect devices compatible with the Yamaha Steinberg FW Driver to a computer and transfer audio/MIDI signals via an IEEE1394 (FireWire) cable.

⚠ CAUTION

- ***Keep in mind that noise may be generated when installing or uninstalling AI Driver. Before performing either of these operations, make sure to lower the output level of each device.***

If you have already installed AI Driver (n Driver) or mLAN Driver/mLAN Tools on your computer:

Windows

Uninstall the driver software before installing the Yamaha Steinberg FW Driver.
For details of uninstalling, refer to page 20.
If you want to use mLAN devices with the same computer, you don't need to uninstall the mLAN Driver/mLAN Tools.

NOTE

- If you are using mLAN Driver/mLAN Tools V1.6.2, update them to V1.6.3 (or higher) before installing the Yamaha Steinberg FW Driver. This is necessary because the Yamaha Steinberg FW Driver cannot work together with the mLAN Driver/mLAN Tools V1.6.2 installed.
- When using the Yamaha Steinberg FW Driver, make sure to disable the mLAN Driver. If this is enabled (on), Yamaha Steinberg FW Driver cannot work because the mLAN Driver uses the IEEE1394 interface.
- When using the mLAN Driver, make sure to turn off any devices compatible with the Yamaha Steinberg FW Driver or disconnect them from the computer before enabling the mLAN driver.
- Note that you may not need to disable the mLAN driver when the computer is equipped with multiple IEEE1394 interfaces and a device compatible with the Yamaha Steinberg FW Driver is connected to the different IEEE1394 interface from the other used by the mLAN driver.

Mac

You don't need to uninstall the driver software. If you want to uninstall, refer to page 21.

If you have not installed AI Driver (n Driver) or mLAN Driver/mLAN Tools on your computer;
Proceed to the installation of Yamaha Steinberg FW Driver.

Follow the steps below to install these software applications.

❶ **Preparing to install**
When using Windows XP ..... page 5
When using Windows Vista/7..... page 8
When using Mac..... page 10

↓

❷ **Installing the software**
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❸ **Confirming the installation**
When using Windows XP ..... page 7
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NOTE

- If you have already installed Yamaha Steinberg FW driver in your computer, you can update the driver software with the same procedure of installation.
- For explanations of the error messages, see page 19.

Installation (Windows XP)

Preparing to Install

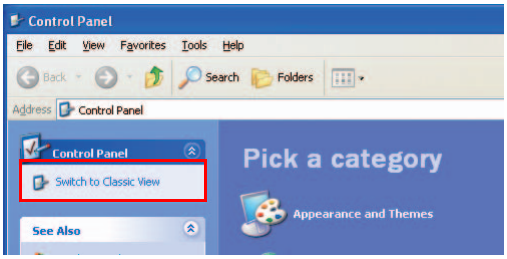
1 **Make sure that the power to the device compatible with the Yamaha Steinberg FW Driver is turned off.**

2 **Using an IEEE1394 cable, connect the device compatible with the Yamaha Steinberg FW Driver directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.**

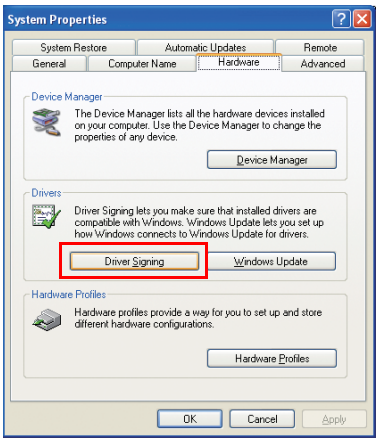
3 **Start the computer and log on to the Administrator account.**

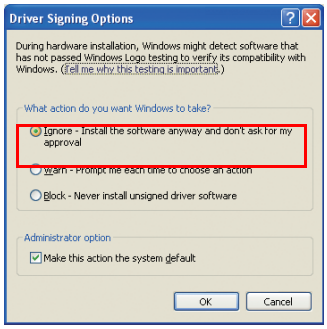
4 **Select [Start] (→ [Settings]) → [Control Panel]. If the control panel appears as shown below, click "Switch to Classic View" in the upper left of the window.**

All control panels and icons will be displayed.



5 **Go to [System] → [Hardware] → [Driver Signing] → [Driver Signing Options], and select the radio button to the left of "Ignore - Install the software anyway and don't ask for my approval" and click [OK].**


System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Device Manager
Drivers
Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.
Driver Signing
Windows Update
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles
OK
Cancel
Apply


Driver Signing Options
During hardware installation, Windows might detect software that has not passed Windows Logo testing to verify its compatibility with Windows. (Tell me why this testing is important.)
What action do you want Windows to take?
Ignore - Install the software anyway and don't ask for my approval
Warn - Prompt me each time to choose an action
Block - Never install unsigned driver software
Administrator option
Make this action the system default
OK
Cancel

NOTE

- After completing the installation, make sure to restore the original setting if necessary.

6 **Check that no "!" or "x" marks appear next to "IEEE1394 Bus host controllers" in ([System] → [Hardware] →) [Device Manager].**

If one of these marks is shown, the IEEE1394/i.LINK connection cannot be used. Refer to the owner's manual of your computer for details.

7 **Close the Device Manager window, System Properties window and Control Panel by clicking the [OK] button or the Close button ([X]) of the windows.**

8 **Exit any open applications and close all open windows.**

Software Installation

The installer will install the Yamaha Steinberg FW Driver to your computer.

NOTE

- Use the Cancel button or Close button to quit the installation. Quitting by using the [Ctrl]+[Alt]+[Delete] buttons or by turning off the power while installation is in process can result in problems since the installation is terminated without performing a proper uninstall.

9 **After the downloaded compressed file is properly extracted, double-click the file "setup.exe."**

A "Welcome to the InstallShield Wizard for Yamaha Steinberg FW Driver" window appears.

Yamaha Steinberg FW Driver - InstallShield Wizard
Welcome to the InstallShield Wizard for Yamaha Steinberg FW Driver
The InstallShield Wizard will install Yamaha Steinberg FW Driver on your computer. Before executing this setup program, make sure to turn off the power to all the IEEE1394 devices connected to the computer, then exit all the programs and close all the unnecessary windows on the computer. Click [Next] to begin installation.
< Back
Next >
Cancel

10 **Click [Next].**

The installation starts.

NOTE

- If a message "The software you are installing has not passed Windows Logo Testing" appears, click [Continue Anyway]. You do not need to abort the installation. If the message does not appear, proceed to the next step.

11 **When installation is complete, a message indicating so appears. If restarting of the computer is necessary following successful completion of the installation, make sure that the radio button to the left of "Yes, I want to restart my computer now" is selected, then click [Finish] to restart the computer. If restarting the computer is unnecessary, click [Finish] to exit the installation process.**

When canceling the installation:
If you've cancelled an installation before it is complete, the software may not have been installed properly. To install the software properly, resume the procedure from Step **9**.

Initial Settings of Driver

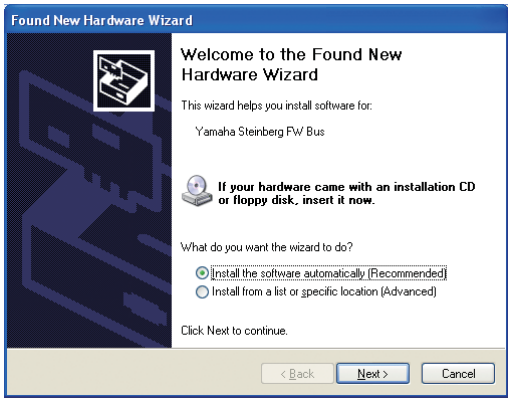
After you've installed Yamaha Steinberg FW Driver, perform the initial settings of the driver.

NOTE

- A dialog box may appear asking you whether you wish to connect to Windows Update. In this case, select the radio button to the left of "Not at this time," then click [Next].

Bus Driver Initial Settings

12 **The "Found New Hardware Wizard" window appears. Select the radio button next to "Install the software automatically [Recommended]," then click [Next].**


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Yamaha Steinberg FW Bus
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

13 **When installation is complete, a message indicating so appears, then click [Finish].**

NOTE

- If multiple IEEE1394 interfaces have been installed to the computer, the wizard appears several times. Exit the wizard each time.

Initial Driver Settings of the Device Compatible with the Yamaha Steinberg FW Driver

14 **Turn on the power to the device compatible with the Yamaha Steinberg FW Driver.**

The "Found New Hardware Wizard" window is displayed.

15 **Select the radio button next to "Install the software automatically [Recommended]," then click [Next].**

16 **When installation is complete, a message indicating so appears, then click [Finish].**

WDM MIDI Driver Initial Settings

17 **The "Found New Hardware Wizard" window appears. Select the radio button next to "Install the software automatically [Recommended]," then click [Next].**

18 **When installation is complete, a message indicating so appears, then click [Finish].**

NOTE

- This wizard will appear only when using a device compatible with the Yamaha Steinberg FW Driver that is equipped with MIDI terminals.

WDM Audio Driver Initial Settings

19 **The "Found New Hardware Wizard" window appears. Select the radio button next to "Install the software automatically [Recommended]," then click [Next].**

20 **When installation is complete, a message indicating so appears, then click [Finish].**

NOTE

- When a new IEEE1394 interface is installed to the computer or the other devices compatible with Yamaha Steinberg FW Driver is connected to the computer, the "Found New Hardware Wizard" window will appear. In that case, finish the wizard in the same way as described here.

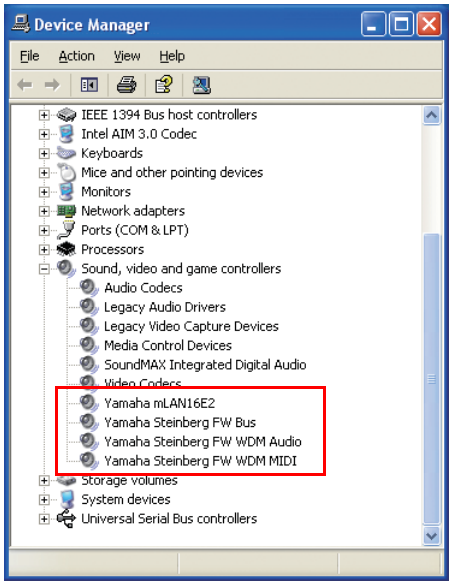
Confirming the Installation

1 **Select [Control Panel] from the Start menu.**

2 **Double-click on the System icon to call up the System Properties window.**

3 **Select the Hardware tab and click [Device Manager].**

4 **Click on the [+] mark next to "Sound, video and game controllers," and confirm that the name of the device compatible with the Yamaha Steinberg FW Driver, "Yamaha Steinberg FW Bus," "Yamaha Steinberg FW WDM Audio" and "Yamaha Steinberg FW WDM MIDI" are listed.**



NOTE

- The available devices compatible with the Yamaha Steinberg FW Driver are shown as follows;

device	shown name
MR816 CSX/MR816 X	Steinberg MR816 Series
n8/n12	Yamaha n series FW
mLAN16E2	Yamaha mLAN16E2
FW16E	Yamaha FW16E

- "Yamaha Steinberg FW WDM MIDI" appears when connecting a device compatible with the Yamaha Steinberg FW Driver which has MIDI terminals.

Uninstalling the Software

To uninstall Yamaha Steinberg FW Driver, follow the instruction below.

1 **Make sure the POWER switch on the device compatible with the Yamaha Steinberg FW Driver is set to OFF, exit from any open applications and close all open windows.**

2 **From the Start menu, select ([Settings] →) [Control Panel] → [Add or Remove Programs] to display the Add or Remove Programs panel.**

3 **Click "Change or Remove Programs" located in the upper left, then select "Yamaha Steinberg FW Driver," from the list in the right panel.**

4 **To uninstall the software, click [Change or Remove].**
Follow the instructions to remove the software.

Installation (Windows Vista/7)

Preparing to Install

1 **Make sure that the power to the device compatible with the Yamaha Steinberg FW Driver is turned off.**

2 **Using an IEEE1394 cable, connect the device compatible with the Yamaha Steinberg FW Driver directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.**

3 **Start the computer and log on to the Administrator account.**

4 **Select [Start] → [Control Panel].**

5 **Click the "Hardware and Sound" → "Device Manager."**

NOTE

- If the "User Account Control" window appears, click [Continue]. A dialog box appears.

6 **Check that no "!" or "x" marks appear next to "IEEE1394 Bus host controllers."**

If one of these marks is shown, the IEEE1394/i.LINK connection cannot be used. Refer to the owner's manual of your computer for details.

7 **Click the Close button ([x]) at the top right of the Device Manager window, then click the Close button ([x]) at the top right of the Control Panel window to close it.**

8 **Exit any open applications and close all open windows.**

Software Installation

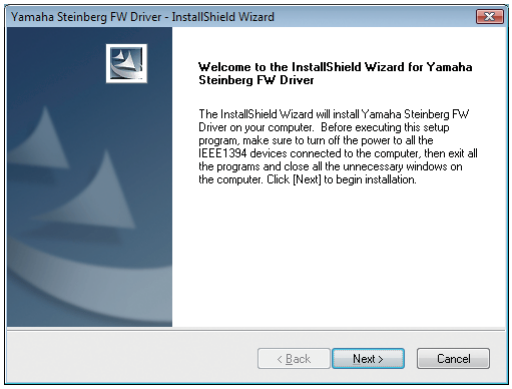
The installer will install the Yamaha Steinberg FW Driver to your computer.

NOTE

- Use the Cancel button or Close button to quit the installation. Quitting by using the [Ctrl]+[Alt]+[Delete] buttons or by turning off the power while installation is in process can result in problems since the installation is terminated without performing a proper uninstall.

9 **After the downloaded compressed file is properly extracted, double-click the file "setup.exe."**

A "Welcome to the InstallShield Wizard for Yamaha Steinberg FW Driver" window appears.


Yamaha Steinberg FW Driver - InstallShield Wizard
Welcome to the InstallShield Wizard for Yamaha Steinberg FW Driver
The InstallShield Wizard will install Yamaha Steinberg FW Driver on your computer. Before executing this setup program, make sure to turn off the power to all the IEEE1394 devices connected to the computer, then exit all the programs and close all the unnecessary windows on the computer. Click [Next] to begin installation.
< Back
Next >
Cancel

NOTE

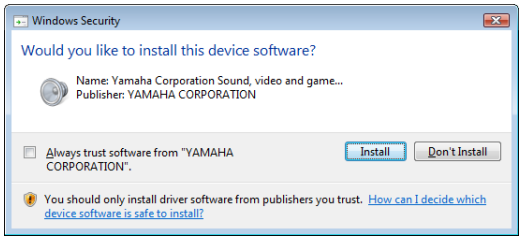
- If the "User Account Control" window appears, click [Continue]. A dialog box appears.

10 **Click [Next].**

The installation starts.

NOTE

- If the "Windows Security" window appears, confirm that the publisher is "YAMAHA CORPORATION," then click [Install].


Windows Security
Would you like to install this device software?
Name: Yamaha Corporation Sound, video and game...
Publisher: YAMAHA CORPORATION
Always trust software from "YAMAHA CORPORATION".
Install
Don't Install
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

11 **When installation is complete, a message indicating so appears. If restarting of the computer is necessary following successful completion of the installation, make sure that the radio button to the left of "Yes, I want to restart my computer now" is selected, then click [Finish] to restart the computer. If restarting the computer is unnecessary, click [Finish] to exit the installation process.**

When canceling the installation
If you've cancelled an installation before it is complete, the software may not have been installed properly. To install the software properly, resume the procedure from Step **9**.

Initial Settings of Driver

After you've installed Yamaha Steinberg FW Driver, perform the initial settings of the driver.

NOTE

- If the "User Account Control" window appears, click [Continue].

12 **Turn on the power to the device compatible with the Yamaha Steinberg FW Driver.**

Initial setup of Yamaha Steinberg FW Driver is automatically started.

NOTE

- If the "User Account Control" window appears when you install a new IEEE1394 interface to the computer, click [Continue].

Confirming the Installation

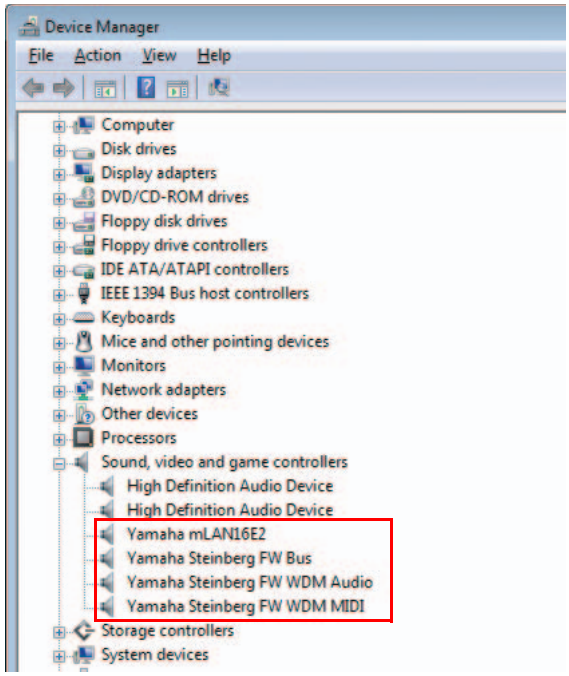
1 **Select [Control Panel] from the Start menu.**

2 **Click the "Hardware and Sound" → "Device Manager."**

NOTE

- If the "User Account Control" window appears, click [Continue]. A dialog box appears.

3 **Click on the [+] mark next to "Sound, Video and game controllers" and confirm that the name of the device compatible with the Yamaha Steinberg FW Driver, "Yamaha Steinberg FW Bus," "Yamaha Steinberg FW WDM Audio" and "Yamaha Steinberg FW WDM MIDI" are listed.**



NOTE

- The available devices compatible with the Yamaha Steinberg FW Driver are shown as follows;

device	shown name
MR816 CSX/MR816 X	Steinberg MR816 Series
n8/n12	Yamaha n series FW
mLAN16E2	Yamaha mLAN16E2
FW16E	Yamaha FW16E

- "Yamaha Steinberg FW WDM MIDI" appears when connecting a device compatible with the Yamaha Steinberg FW Driver which has MIDI terminals.

Uninstalling the Software

Follow the instruction below to uninstall the Yamaha Steinberg FW Driver.

1 **Make sure that the power to the device compatible with the Yamaha Steinberg FW Driver is turned off. Exit any open applications and close all open windows.**

2 **From the Start menu, select [Control Panel] → [Uninstall a Program] to display the Uninstall or change a program panel.**

3 **Select "Yamaha Steinberg FW Driver" from the list.**

4 **To uninstall the software, click [Uninstall/Change].**

If the "User Account Control" window appears, click [Continue]. A dialog box appears. Follow the instructions to remove the software.

Installation (Mac)

Preparing to Install

1 **Make sure that the power to the device compatible with the Yamaha Steinberg FW Driver is turned off.**

2 **Using an IEEE1394 (Firewire) cable, connect the device compatible with the Yamaha Steinberg FW Driver directly to the computer (without using a hub), and disconnect all other IEEE1394 devices from the computer.**

3 **Start the computer and log in to the Administrator account.**

4 **Exit any open applications and close all open windows.**

Software Installation

5 **After the downloaded compressed file is properly extracted, double-click the file "Yamaha Steinberg FW Driver.mpkg."**

6 **A dialog box appears asking if you want to install the software. Click [Continue].**

The "Welcome to the Yamaha Steinberg FW Driver Installer" window appears.

7 **Click [Continue].**

The "Installation Type" window appears.

8 **Click [Install].**

The "Authenticate" window appears.

9 **Enter the Administrator name and the password, then click [OK].**

A message appears prompting you to restart the computer after the installation.

10 **Click [Continue Installation].**

The "Install" window appears indicating the installation progress. When the installation is complete, the "summary" window appears.

NOTE

- Installation cannot be canceled after clicking [Continue Installation].

11 **Click [Restart] to restart the computer.**

12 **Turn on the power to the device compatible with the Yamaha Steinberg FW Driver.**

When canceling the installation
If you've cancelled an installation before it is complete, the software may not have been installed properly. To install the software properly, resume the procedure from Step **5**.

Confirming the Installation

Mac OS X 10.5

1 **From the hard disk to which the OS is installed (usually Macintosh HD), click [Applications] → [Utilities], then double-click [Audio MIDI Setup].**

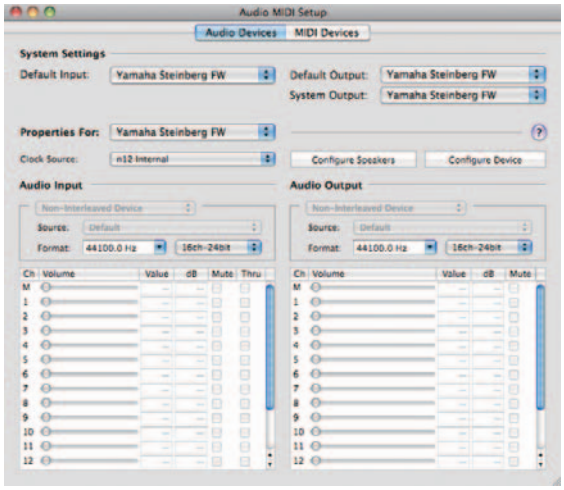
The "Audio MIDI Setup" window appears.

2 **Click [Audio Devices], then select "Yamaha Steinberg FW" from the pull-down menu in [Properties For].**

The current audio settings are shown in the [Audio Input] and [Audio Output] fields.

NOTE

- By selecting "Yamaha Steinberg FW" for [Default Output] in System Settings, you can output audio signals of the audio player software (e.g., iTunes, etc.) from the device compatible with the Yamaha Steinberg FW Driver.



Mac OS X 10.6

1 **From the hard disk to which the OS is installed (usually Macintosh HD), click[Applications] • [Utilities], then double-click [Audio MIDI Setup].**

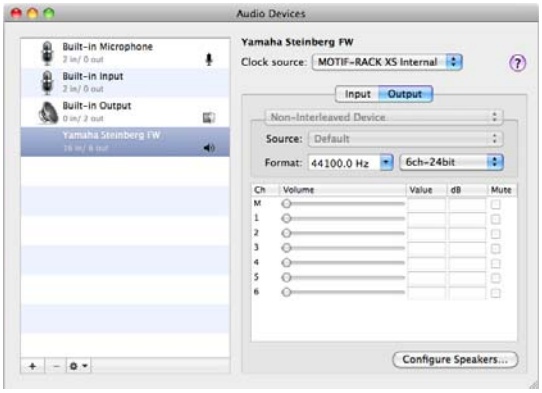
The "Audio Devices" window appears.

2 **Select "Yamaha Steinberg FW" from the list of audio devices.**

The current audio settings are shown in the right side of the window.

NOTE

- By selecting “using this devices for sound output” in the Action menu at the left bottom of the window, you can output audio signals of the audio player software (e.g., iTunes, etc.) from the device compatible with the Yamaha Steinberg FW Driver.



Uninstalling the Software

Removing Yamaha Steinberg FW Driver

Remove the following folders and files from the boot disk (usually Macintosh HD).

/Applications/Yamaha/FWDriver/
- Yamaha Steinberg FW Control Panel.app
- YamahaFWCM.app

/Library/Application Support/Yamaha/FWDriver/HAL/
- YamahaFWHAL.bundle

/Library/Audio/MIDI Devices/Yamaha/Images/
- FW_10000D.tiff
- FW_10000E.tiff
- FW_110006.tiff
- FW_110007.tiff
- FW_110008.tiff
- FW_110009.tiff
- FW_11000B.tiff
- FW_11000C.tiff
- FW_11000D.tiff

/Library/Audio/MIDI Drivers/
- YamahaFWMIDI.plugin

/Library/LaunchAgents/
- com.yamaha.YamahaFWCM.plist

/Library/PreferencePanes/
- Yamaha Steinberg FW.prefPane

/Library/Preferences/
- com.yamaha.FWDriver.plist

/Library/Receipts/
- YamahaFWAudioDriver.pkg
- YamahaFWCM.pkg
- YamahaFWCP.pkg
- YamahaFWDriverplist.pkg
- YamahaFWEnabler.pkg
- YamahaFWHAL.pkg
- YamahaFWMIDIIcon.pkg
- YamahaFWMIDIPlugIn.pkg

/System/Library/Extensions/
- YamahaFWAudioDriver.kext

/System/Library/Frameworks/
- YamahaFWEnabler.framework

/User/{Account name}/Library/Preference/
- com.yamaha.YamahaFWCM.plist

* “{Account name}” indicates the account name when Yamaha Steinberg FW Driver is installed.

Selecting the Yamaha Steinberg FW Driver

When using devices compatible with the Yamaha Steinberg FW Driver with DAW software, set up the Audio/MIDI driver settings of the DAW software as follows.

Audio Driver
Windows WDM Driver: “Yamaha Steinberg FW WDM Audio”
Windows ASIO Driver: “Yamaha Steinberg FW ASIO”
Mac: “Yamaha Steinberg FW”

MIDI Driver
The port name of MIDI driver is shown as “xxx(Device name) xxx (Port name).”
For details on the difference in each port’s features for devices, refer to the owner’s manual of your particular device.

Changing Settings After Installation

This Control Panel window lets you set basic devices compatible with the Yamaha Steinberg FW Driver parameters when using Yamaha Steinberg FW Driver. The Control Panel consists of the General window, device compatible with the Yamaha Steinberg FW Driver window and About window which lets you set the parameters such as sampling rate and WORD CLOCK Source. The settings here are immediately applied to the device compatible with the Yamaha Steinberg FW Driver.

How to call up the Control Panel window

Windows:

- Double-click the driver icon indicated on the Taskbar Notification area, or right-click the icon, then select “Control Panel.”
- Select [Start] → [Control Panel] → [Hardware and Sound] → [Yamaha Steinberg FW Driver].
- When using Cubase series Version 4.5 or later, from the Device field on the Device Setup window (called up via [Device]. [Device Setup...]) of Cubase, select “Yamaha Steinberg FW ASIO” then select “Control Panel.” (When using ASIO compatible software, you can open the control panel via to open the ASIO control panel of the DAW software. For details, refer to the owner’s manual of the DAW software.)

Mac:

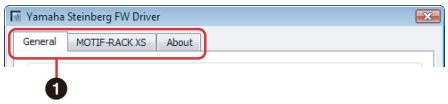
- Select [System Preference...] → [Yamaha Steinberg FW]
- (Mac OS X 10.5) Select the Application folder → Utility folder → Audio MIDI Setup → Set “Properties” to “Yamaha Steinberg FW”, then click [Configure Device]
- (Mac OS X 10.6) Select Application folder → Utility folder → Audio MIDI Setup → Select “Yamaha Steinberg FW” in the “Audio Devices” window. Click Action menu at the left bottom of the window, then select [Configure device...].
- When using Cubase series Version 4.5 or later, from the Device field on the Device Setup window (called up via [Device] → [Device Setup...]) of Cubase, select “Yamaha Steinberg FW” then click “Control Panel” → click [Open Config App] button in the “CoreAudio Device Settings” window.

NOTE

- The explanations below use Windows are an example, but the basic operation is the same for both Windows and Mac.

Parameter functions

Overall

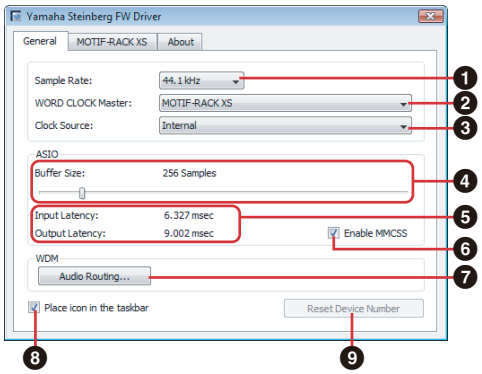


1 Tab
Calls up the corresponding window.
To close the Control Panel window, click the “X” at the top right corner of the window on Windows, or click the “X” at the top left corner of the window on Mac.

NOTE

- When two or three devices compatible with Yamaha Steinberg FW Driver are connected in daisy-chain fashion, the corresponding tabs are indicated for each device. When the same two or three devices are connected, the corresponding tabs are indicated with numbers assigned to each device. For details, refer to page 15.

General window



❶ Sample Rate

Specifies the sample rate of the device compatible with the Yamaha Steinberg FW Driver from 44.1 kHz, 48 kHz, 88.2 kHz and 96 kHz.

NOTE

- The internal sample rate of the MOTIF XF/XS series instrument and MOTIF-RACK XS tone generator is set to only 44.1 kHz no matter what setting is made here. The setting here affects to the audio signal transmission/reception between the FW16E/mLAN16E2 and the computer.

❷ WORD CLOCK Master

Selects the master device of the Word Clock. This parameter is available only when two or three devices compatible with Yamaha Steinberg FW Driver are connected in daisy-chain fashion.

❸ Clock Source

Selects the Word Clock source of the current device compatible with the Yamaha Steinberg FW Driver.

NOTE

- For the n8/n12/mLAN16E2/FW16E, you can select “Internal” only.
  For the other devices compatible with the Yamaha Steinberg FW Driver, refer to the owner’s manual of the device.

❹ ASIO Buffer Size (Windows only)

Determines the buffer size for the ASIO driver.

❺ Input Latency/Output Latency (Windows only)

Indicates the delay time for the audio input/output in millisecond units. Audio latency differs depending on the value of the ASIO Buffer Size. The lower the value of the ASIO Buffer Size, the lower the value of Audio Latency.

❻ Enable MMCSS (Windows Vista/7 only)

Determines whether the MMCSS (Multimedia Class Scheduler Service) is active or not on Windows Vista/7. If you place a checkmark in the checkbox, MMCSS will be enabled and driver performance will be improved.

❼ Audio Routing (Windows only)

Click this to call up the WDM Audio Routing window. From this window, you can determine the input/output jack used for the WDM Audio driver. In each section, the upper box selects the device (only when two or three devices compatible with Yamaha Steinberg FW Driver are connected in daisy-chain fashion) and the lower box selects the input or output jacks.

NOTE

- This parameter specifies which jacks accept the input signals sent to a computer and to which jacks the output signals from the computer are sent. The input channels are stereo channels. The output channels are six consecutive channels from the stereo channels set in the output port setting.

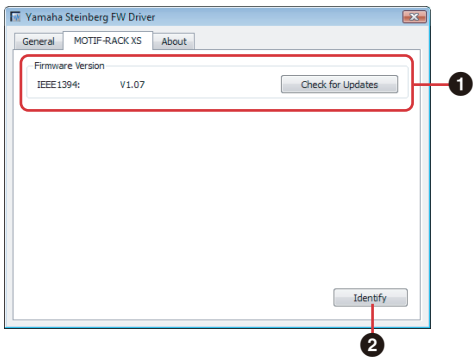
❽ Place Icon In the taskbar (Windows only)

When this checkmark is entered, the driver icon is indicated on the Taskbar Notification area.

❾ Reset Device Number

Clicking this resets the indication order of the devices on the DAW software. For details, refer to page 15. This operation is only effective when two or more devices compatible with Yamaha Steinberg FW Driver are connected in daisy-chain fashion.

Compatible Device window



❶ Firmware Version

Indicates the firmware version of the IEEE1394. Clicking [Check for Updates] will call up the website from which you can download the latest firmware program.

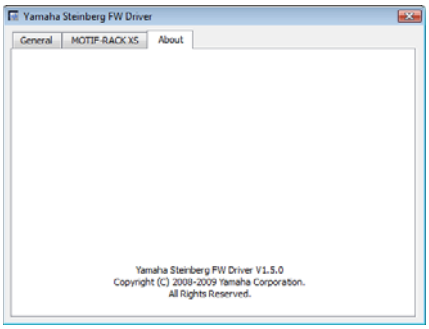
❷ Identify

Clicking this will cause the response by the currently controlled device compatible with the Yamaha Steinberg FW Driver. The Cubase Ready indicator on the currently controlled n8/n12 will flash. A popup display on the currently controlled MOTIF XF/XS series or MOTIF-RACK XS will appear. This operation lets you confirm which device is actually controlled from a computer when two or more devices are daisy-chain connected.

NOTE

- For other devices compatible with the Yamaha Steinberg FW Driver, refer to the owner's manual of the device.

About window



This window indicates the version of the Yamaha Steinberg FW Driver.

Word Clock

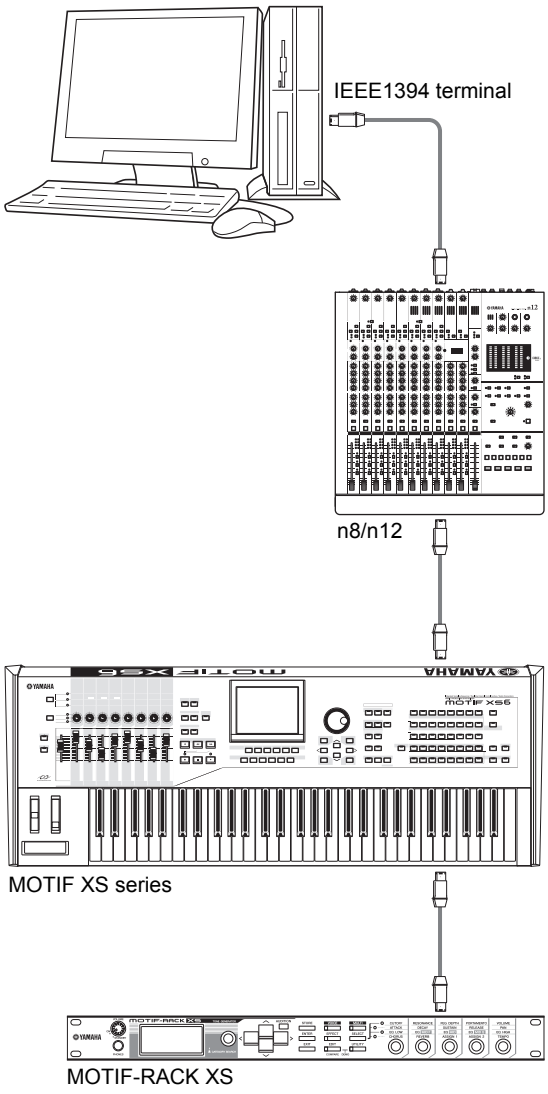
In a typical digital audio system, the signal referred to as "word clock" is used to synchronize the process timing of audio signals between multiple devices. If the word clock is not transferred correctly, click noise may occur or recording may not be successful. Normally, one device transmits a reference word clock signal, and the other devices receive this word clock signal and synchronize to it. The transmitting device is called the "word clock master" and the receiving devices are called "word clock slaves". Some devices compatible with Yamaha Steinberg FW Driver can function as the word clock slave. Select the word clock source of the word clock signal in the Clock Source parameter.

Setting the audio driver buffer size

Noise produced when using applications such as DAW software can affect audio recording and/or playback. In most cases, you can solve these problems by adjusting the audio buffer size. The buffer size can usually be adjusted via the audio driver setup window in the application. (When using ASIO compatible software for Windows, the buffer size can be adjusted in the ASIO Buffer Size parameter via the Control Panel of the Yamaha Steinberg FW Driver.) While the higher buffer size reduces load to the computer CPU but produces latency (time lag) during recording/playback, the smaller buffer size may result in noise or the sound cutting off. Make sure to set the buffer size to an appropriate value depending on the performance of your computer, the number of audio/MIDI tracks being recorded/played back on the DAW software, the number of plug-in software, and so on.

Using Multiple Devices Compatible with Yamaha Steinberg FW Driver

Up to three devices compatible with Yamaha Steinberg FW Driver can be used simultaneously. By connecting them in daisy-chain fashion to a computer via IEEE1394 cables, you can upgrade your music production system simply by adding other devices.



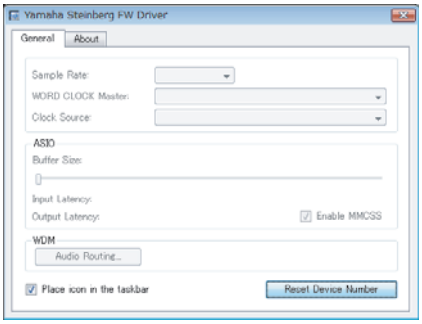
NOTE

- Keep in mind that up to two devices can be connected when the Sample Rate is set to 88.2 kHz or 96 kHz. Even if you connect an additional third device, the last recognized device (other than the device specified as the Word Clock master) connected to the computer will not be available.
- Up to two MOTIF XF/XS series and MOTIF-RACK XS instruments can be connected regardless of the Sample Rate settings.
- Even if multiple IEEE1394 interfaces are installed on the computer, make sure to daisy-chain connect all devices to the jacks of a single interface. This is necessary since the computer can only recognize devices connected to a specific, single IEEE1394 interface jack, and cannot recognize devices connected to different jacks of different IEEE1394 interfaces even though they are installed on the same computer.

When connecting two or three devices compatible with Yamaha Steinberg FW Driver to a computer, the order of devices displayed in the DAW (Cubase etc.) will be maintained even if the power is turned off. The order of devices will be reproduced when turning on the power of the connected devices. When the same two or three devices are connected, a unique number (indicated at the end of the device name) is automatically assigned to each of the devices, in the order with which the devices are connected. The number once assigned to a device will be maintained even if it is disconnected or the power is turned off. If you want to reset the order of devices displayed in DAW or the number assignment, follow the instructions below.

1 **Turn off the power of all the connected devices compatible with Yamaha Steinberg FW Driver then disconnect all the IEEE1394 cables.**

2 **Call up the Control Panel of the Yamaha Steinberg FW Driver window then click the [General] tab.**



3 **Click the [Reset Device Number] button at the bottom right corner of this window.**

NOTE

- The [Reset Device Number] button is available only when all the connected devices are turned off. When any device is turned on, this button is dimmed and cannot be clicked.

4 **Daisy-chain connect two or three devices compatible with Yamaha Steinberg FW Driver to the computer in the desired order.**

5 **Turn on the power of the first device connected directly to the computer.**

Wait until the tab corresponding to the first device appears on the Control Panel of the Yamaha Steinberg FW Driver window, indicating that the computer has actually recognized the first device.

6 **Turn on the power of the second device that is daisy-chain connected to the first device.**

The tab corresponding to the second device appears on the Control Panel of the Yamaha Steinberg FW Driver window, indicating that the computer has recognized the second device. If a third device has been connected to this second device, turn the power on in the same manner. As necessary, set the “WORD CLOCK Master” to the desired device.

Hints for Using Audio Data (Windows)

For optimum use of the audio functions, we recommend you make the following settings. These settings minimize possible audio problems, such as drop outs, glitches and noise.

Set the DMA mode (high-speed transfer mode) of the hard disk to on

Windows 7
Select [Control Panel] → [Hardware and Sound] → [Device Manager] → "IDE ATA/ATAPI controllers," then double -click "ATA Channel 0" and open [Advanced Settings]. Check (enable) "Enable DMA" in the "Device Properties" section.

Windows Vista
Select [Control Panel] → [Device Manager] (→ [Continue] in the "User Account Control" window) → "IDE ATA/ATAPI controllers", then double-click "ATA Channel 0" and open [Advanced Settings]. Check (enable) "Enable DMA" in the "Device Properties" section.

Windows XP
Select [Control Panel] → [System] → [Hardware] → [Device Manager] → "IDE ATA/ATAPI controllers", then double-click "Primary IDE Channel" and "Secondary IDE Channel", open [Advanced Settings]. Set "Transfer Mode" in the "Device" section to "DMA if available."

Set Processor Scheduling to "Background services"

Windows 7
Select [Control Panel] → [System and Security] → [System] → [Advanced system settings] in the upper left of the window → [Advanced] → [Settings] in the Performance section → [Advanced] and select the radio button to the left of "Background services" in the "Processor scheduling" section.

Windows Vista
Select [Control Panel] → [System] → [Advanced system settings] in the upper left of the window (→ [Continue] in the "User Account Control" window) → [Advanced] → [Settings] in the "Performance" section → [Advanced] and select the radio button to the left of "Background services" in the "Processor scheduling" section.

Windows XP
Select [Control Panel] → [System] → [Advanced] → [Settings] in the "Performance" section → [Advanced] and select the radio button to the left of "Background services" in the "Processor scheduling" section.

Set the Visual Effects options to "best performance"

Windows 7
Select [Control Panel] → [System and Security] → [System] → [Advanced system settings] in the upper left of the window → [Advanced] → [Settings] in the "Performance" section → [Visual Effects] and select the radio button to the left of "Adjust for best performance."

Windows Vista
Select [Control Panel] → [System] → [Advanced system settings] in the upper left of the window (→ [Continue] in the "User Account Control" window) → [Advanced] → [Settings] in the "Performance" section → [Visual Effects] and select the radio button to the left of "Adjust for best performance."

Windows XP
Select [Control Panel] → [System] → [Advanced] → [Settings] in the "Performance" section → [Visual Effects] and select the radio button to the left of "Adjust for best performance."

Set Remote Assistance to off

Windows 7
Select [Control Panel] → [System and Security] → [System] → [Remote settings] in the upper left of the window → [Remote] and uncheck "Allow Remote Assistance connections...."

Windows Vista
Select [Control Panel] → [System] → [Remote settings] in the upper left of the window (→ [Continue] in the "User Account Control" window) → [Remote] and uncheck "Allow Remote Assistance connections...."

Windows XP
Select [Control Panel] → [System] → [Remote] and uncheck "Allow Remote Assistance invitations...."

Enable the Classic Start menu

Windows Vista/XP
Right-click on an empty space on the task bar and select [Properties] → [Start Menu], then select the radio button to the left of "Classic Start menu."

Disable transition effects

Windows 7
Select [Control Panel] → [Ease of Access] → [Ease of Access Center] → "Mace it easier to focus on tasks," then check (enable) "Turn off all unnecessary animations (when possible)" in the "Adjust time limits and flashing visuals" section.

Windows Vista
Select [Control Panel] → [Ease of Access Center] → "Make it easier to focus on tasks", then check (enable) "Turn off all unnecessary animations (when possible)" in the "Adjust time limits and flashing visuals" section.

Windows XP
Select [Control Panel] → [Display] → [Appearance] → [Effects...], and un-check (disable) "Use the following transition effect for menus and tooltips."

Disable SpeedStep™

Refer to "Troubleshooting."

Disconnect your computer from the Internet

Select [Control Panel] → [Network and Sharing Center]/[Manage network connections] and right-click "Disable."

Troubleshooting

■ If an error message appears:

- Refer to the Error Message List on page 19.

■ No sound is heard, or the sound is too faint.

Settings on the device compatible with Yamaha Steinberg FW Driver and connections

- The connection cable from the external device may be broken.
- Make sure that the speakers or headphones are connected correctly.
- Make sure that the power to your amplifier and other external devices is turned on.
- Make sure that the volume between monitor speakers is well-balanced.
- Is the Word Clock setting correct for both the device compatible with the Yamaha Steinberg FW Driver and the external device(s)?

Settings on a computer

- Make sure to set the volume settings within your application to appropriate levels.
- Confirm whether or not the settings in the Yamaha Steinberg FW Driver are appropriate. For details, refer to "? Audio and MIDI signals fail to transfer between computer and the devices compatible with the Yamaha Steinberg FW Driver."

■ The sound is distorted.

Settings on the devices compatible with the Yamaha Steinberg FW Driver and connections

- The connection cable from the external device may be broken.
- Make sure that audio was recorded at an appropriate level.
- The EQ gain may be set excessively high. Set this control to an appropriate level.
- Confirm whether or not the Word Clock settings for both the devices compatible with the Yamaha Steinberg FW Driver and the external device(s) are correct.

Settings on a computer

- Make sure that audio was recorded at an appropriate level.

■ Noise is generated.

Settings on the devices compatible with the Yamaha Steinberg FW Driver and connections

- There may be a noise-inducing device (such as a device containing a power inverter, etc.) near the cables. Move all cables away from any possible sources of noise.
- Confirm whether or not the Word Clock settings on the devices compatible with the Yamaha Steinberg FW Driver and the connected devices are correct.

Connection with a computer

- The IEEE1394 cable may be damaged. Cables that do not satisfy IEEE1394 (S400) standards may cause noise.
- There may be a noise-inducing device (such as a device containing a power inverter, etc.) near the IEEE1394 cables. Move all cables away from any possible sources of noise.
- Make sure that the appropriate number of devices is connected to the computer. Connection of too many devices may cause noise, depending on the capacity of the computer.

Settings on a computer

- Make sure that your computer satisfies the system requirements.
- Make sure that the latency setting of the Yamaha Steinberg FW Driver is appropriate.
- Make sure that the sample rate is appropriate. A high sample rate may be the cause of noise, depending on the computer's capacity and speed.
- If your computer's hard disk is slow, problems may occur during recording and playback.
- Try increasing the computer's memory capacity.
- Quit all applications that are running in the background when you use the devices compatible with the Yamaha Steinberg FW Driver (Yamaha Steinberg FW Driver) with the computer. If such software is running, driver operation may become unstable and create noise. If you do not plan to use the Yamaha Steinberg FW Driver, you can turn these applications on again.
- (For Windows) Mobile computers with Intel EIST™ (CPU SpeedStep™) technology is applied for some CPU's (for notebook PC). If you are using the devices compatible with the Yamaha Steinberg FW Driver (Yamaha Steinberg FW Driver) along with such a computer, disable the EIST™ (CPUSpeedStep™) technology function. Most computers allow you to disable/enable this in the BIOS. Please refer to the PC's operating manual, or consult the PC manufacturer.
- (For Windows) Some network adaptors can cause noise. In such a case, use the Device Manager to disable the suspected network adaptor to remove the noise.

■ The computer processing speed is too slow.

■ The computer's CPU meter indicates a heavy processing load.

■ Playback response is delayed.

■ Insufficient tracks for recording or playback.

Connection with a computer

- Make sure that the appropriate number of devices is connected to the computer. Try reducing the number of devices connected to the computer.

Settings on a computer

- Make sure that your computer satisfies the system requirements.
- Try increasing the latency value of the Yamaha Steinberg FW Driver.
- (For Windows) Refer to ?Hints for Using Audio Data (Windows)? on page 16.

■ Incorrect pitch.

Settings on the devices compatible with the Yamaha Steinberg FW Driver and connections

- Confirm whether or not the master device of the word clock works in a stable way.
- Make sure to set the Sample Rate of the devices compatible with the Yamaha Steinberg FW Driver to the same value as that of the synchronized external audio device.

■ The device name cannot be recognized from the DAW software.

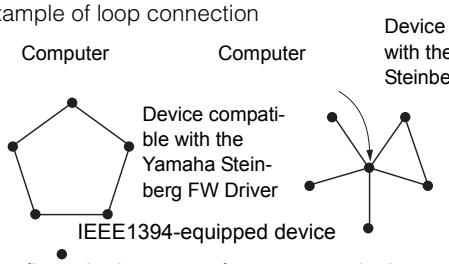
■ Audio and MIDI signals fail to transfer between computer and the devices compatible with the Yamaha Steinberg FW Driver.

Connection with a computer

- Make sure that the IEEE1394 cable is connected properly, and that the power to the devices compatible with the Yamaha Steinberg FW Driver has been turned on. Disconnect the IEEE1394 cable once, then insert it again.

- There may be a loop connection. Check the cabling to make sure that none of the devices are connected in a loop.

Example of loop connection


Computer
Computer
Device compatible with the Yamaha Steinberg FW Driver
Device compatible with the Yamaha Steinberg FW Driver
IEEE1394-equipped device

- Confirm whether or not four or more devices compatible with the Yamaha Steinberg FW Driver are connected.
  Up to three devices compatible with the Yamaha Steinberg FW Driver can be used simultaneously when the Sample Rate is set to 44.1 kHz/48 kHz. Up to two devices can be connected when the Sample Rate is set to 88.2 kHz or 96 kHz. In this case, make sure to turn the power of the unused devices to off, or disconnect the IEEE1394 cable from the computer.
- Confirm whether or not other IEEE1394 devices are connected to the computer.
  The limit of the IEEE1394 BUS bandwidth may have been exceeded. Make sure to turn the power of the unused devices to off, or disconnect the IEEE1394 cable from the computer.
- If any IEEE1394 devices which are not compatible with Yamaha Steinberg FW Driver are connected directly to a computer, disconnect them from the computer and make sure to connect only a device which is compatible with the Yamaha Steinberg FW Driver.
- There may be multiple IEEE1394 interfaces installed on the computer and each of the multiple IEEE1394 devices may be connected to different interfaces. When using multiple devices compatible with the Yamaha Steinberg FW Driver and connecting them to the computer peer-to-peer individually (i.e., star-connection), make sure to connect them all to the jacks of a single interface.

Settings on a computer

- Confirm whether or not “Yamaha Steinberg FW Driver” has been installed correctly.
- (For Windows XP) “Add New Hardware Wizard” may not be completed correctly. If you have canceled it, restart the computer so that “Add New Hardware Wizard” appears.
- Restart the computer.
- (Mac) If the new IEEE1394 interface (PC card, etc.) is connected to the computer (with the power turned on), restart the computer. The IEEE1394 device compatible with the Yamaha Steinberg FW Driver will be recognized by the computer after restarting.
- (Windows) Confirm whether or not “AI Driver (n Driver)” or “mLAN Driver/mLAN Tools” has been installed in the computer. Turn the driver to disable (off).

■ Unable to transfer MIDI data or Program Changes. (When using a device which is compatible with the Yamaha Steinberg FW Driver and features MIDI ports)

Settings on the device, external device and computer

- Confirm whether or not the appropriate MIDI port is selected in the application software (DAW, etc.).
- Make sure the transmission and receive channels match between both the source device and destination device including the DAW software.
- Confirm whether or not the MIDI settings have been properly made in the connected devices including the DAW.
- Confirm whether the power of all connected devices has been are turned on or not.

■ Cannot use other connected IEEE1394 devices correctly.

- Disconnect the IEEE1394 device compatible with the Yamaha Steinberg FW Driver from the computer.

NOTE

- For details of the issues, also refer to the “Troubleshooting” section in the owner’s manual of the device compatible with the Yamaha Steinberg FW Driver.

Appendix

Error Messages

Error message	Cause	Solution
Failed to initialize.	Initialization of Yamaha Steinberg FW Driver has failed.	Restart the computer.
(Software name) (Version) is installed. Yamaha Steinberg FW Driver cannot work with this version. Please update it to V1.6.3 or later.	(Windows only) The version of n Driver, AI Driver and mLAN Driver/mLAN Tools installed to your computer may not be compatible with the Yamaha Steinberg FW Driver.	Uninstall AI Driver (n Driver). Update mLAN Driver/mLAN Tools installed to your computer to V1.6.3 or later.
Failed to open Control Panel.	The Yamaha Steinberg FW Driver does not work properly.	Try the following operations. · Restart the computer. · Uninstall then install Yamaha Steinberg FW Driver
Failed to change driver setting due to another processing.	The settings on the Control Panel cannot be accepted because another program is now changing the settings of the Yamaha Steinberg FW Driver.	Perform the settings again after a while.
Failed to change driver setting.	Failed due to a cause other than the above.	· Disconnect the IEEE1394 cable from the device compatible with the Yamaha Steinberg FW Driver then connect again or turn off the power to that device then turn on the power again. · Restart the computer.
	Insufficient memory space.	Exit all unnecessary applications and uninstall the unnecessary drivers.

Uninstalling AI Driver (n Driver) or mLAN Driver/mLAN Tools

Windows

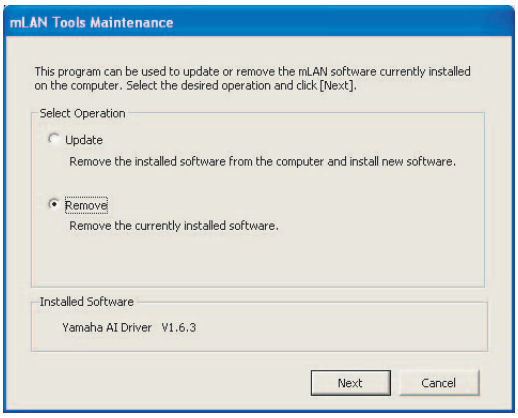
To uninstall AI Driver (n Driver) or mLAN Driver/mLAN Tools, you must remove the following two software components:

- **AI Driver (n Driver) or mLAN Applications for Yamaha**
- **mLAN Tools 2.0**

Installed software can be removed from your computer as follows.

1 **After the downloaded compressed file is properly extracted, double-click the "setup.exe" file in the "Uninstall_mLAN" folder.**

The maintenance window appears.


mLAN Tools Maintenance
This program can be used to update or remove the mLAN software currently installed on the computer. Select the desired operation and click [Next].
Select Operation
Update
Remove the installed software from the computer and install new software.
Remove
Remove the currently installed software.
Installed Software
Yamaha AI Driver V1.6.3
Next
Cancel

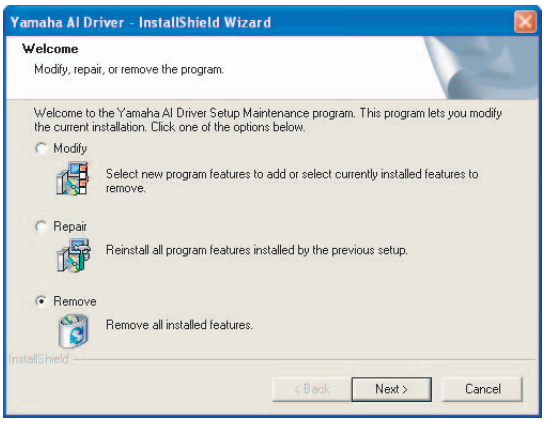
NOTE

- When using Windows Vista, click [Continue] if the "User Account Control" window appeared. After that, the maintenance window will appear.
- If AI Driver (n Driver) or mLAN Driver/mLAN Tools has not been installed, A message "Installer cannot be found" appears. Installer starts.

2 **Select the radio button to the left of "Remove", then click [Next].**

3 **A message "Remove (A name of software installed)" appears. Click [Next].**

4 **"Welcome" window appears. Check the radio button to the left of "Remove", then click [Next].**


Yamaha AI Driver - InstallShield Wizard
Welcome
Modify, repair, or remove the program.
Welcome to the Yamaha AI Driver Setup Maintenance program. This program lets you modify the current installation. Click one of the options below.
Modify
Select new program features to add or select currently installed features to remove.
Repair
Reinstall all program features installed by the previous setup.
Remove
Remove all installed features.
InstallShield
< Back
Next >
Cancel

5 **Confirmation regarding removal of the file appears. Click [OK].**

The maintenance operation starts.

6 **You are informed when the maintenance operation is complete. Click [Finish].**

7 **The message "Remove mLAN Tools 2.0" appears. Click [Next].**

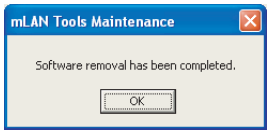
8 **Confirmation regarding removal of the file appears. Click [OK].**

The maintenance operation starts.

9 **You are informed when the maintenance operation is complete. Click [Finish].**

10 **A dialog box indicating that "The software has been removed" appears. Click [OK].**

The uninstallation of AI Driver (n Driver) or mLAN Driver/mLAN Tools is complete.



NOTE

- You can also uninstall the software by using "Add or Remove Programs" / "Programs and Features" in the Windows Control Panel.
  Remove the following two software programs in the listed order. (Be sure to remove software 1, then software 2.)
  1) Yamaha AI Driver (Yamaha n Driver) or mLANApplications for Yamaha
  2) mLAN Tools 2.0

Mac

To uninstall AI Driver or mLAN Driver/mLAN Tools, you must remove the following folders and files from the boot disk (usually Macintosh HD). Depending on the installed software, some of these folders/files may not exist on your computer.

/Applications/mLAN Tools/
/System/Library/Extensions/Yamaha1394AudioDriver.kext
/System/Library/Extensions/YamahaOGTAsync.kext
/System/Library/Frameworks/mLANEnablerFramework.framework
/System/Library/Frameworks/mLANQt.framework or mLANQtFramework.framework
/Library/Application Support/mLAN/
/Library/Audio/MIDI Drivers/Yamaha1394MIDI.plugin
/Library/Prefrences/com.yamaha.mLAN Manager.plist
/Library/Receipts/01XHAL.pkg
/Library/Receipts/1394AudioDriver.pkg
/Library/Receipts/1394MIDIPlugIn.pkg
/Library/Receipts/i88XHAL.pkg
/Library/Receipts/NCP08HAL.pkg
/Library/Receipts/mLAN16EHAL.pkg
/Library/Receipts/mLANAsyncLibrary.pkg
/Library/Receipts/mLANAutoConnector.pkg
/Library/Receipts/mLANEnablerFramework.pkg
/Library/Receipts/mLANGraphicPatchbay.pkg
/Library/Receipts/mLANManager.pkg
/Library/Receipts/mLANQt.pkg
/Library/Receipts/MY16mLANHAL.pkg
/Library/Receipts/Presets.pkg
/Library/Receipts/YamahaAIDriverHAL.pkg
/User/ (Account name) /mLAN/
/ User/ (Account name) /Library/Preferences/com.yamaha.autoconnector.plist
/ User/ (Account name) /Library/Preferences/com.yamaha.mLAN.GraphicPatchbay.plist
/ User/ (Account name) /Library/Preferences/com.yamaha.mLAN Manager.plist

NOTE

- “(Account name)” indicates the account name when AI Driver is installed.

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012MW-D0